



**GROUNDWATER  
TECHNOLOGY, INC.**

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TELECOPY MESSAGE

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BC

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TABLE 1  
SUMMARY OF RECOVERED AND  
DESTROYED HYDROCARBONS\*

Berkeley, California

Well Date	Elapsed Time (HRS)	Total Hours Operational	Hours Operational In Period	Percent Operational In Period	Raw Total Gallons	Processed Water In Period (gal.)	Water Processing Rate (gpm)	Operating Vacuum (in Hg)	FID Reading (ppmv)	Benzene (lb/day)	Benzene (lb) In Period	Benzene (lb) Cumulative	TPH-G (lb/day)	TPH-G (lb) In Period	TPH-G (lb) Cumulative	TPH-G (lb) Cumulative	
11/05/94		0	0		260,164			13	2,000	1.4	0	0	84			0	
11/07/94	49	34	4	12	260,434	270	1.2	0	2,000	0.0	0	0	13	13	13	2	
11/16/94	215	30	26	12	260,440	6	0.0	8	2,000	0.0	0	0	15	15	15	2	
11/17/94	26	56	26	100	261,021	581	0.4	5	2,000	0.3	0.31	0	17	17	17	5	
11/18/94	23	78	73	100	261,430	409	0.3	3	2,000	0.0	0	0	11	11	11	5	
11/21/94	73	451	73	100	263,361	1,831	0.4	10	2,000	0.0	0	0	14	14	14	5	
11/23/94	30	153	1	3	263,361	0	0.4	6	300	0.2	0.01	0	14	14	14	5	
11/29/94	134	272	119	89	265,423	2,082	0.3	8	200	0.4	0.64	0	6	6	37	10	
12/05/94	151	292	70	13	265,581	158	0.1	10	250	0.2	0.18	0	11	11	11	12	
12/12/94	182	454	100	100	276,980	10,949	1.1	12	900	0.5	1.89	5	34	24	228	29	
12/13/94	26	479	26	100	278,734	1,654	1.1	12	725	0.5	0.56	6	32	34	330	50	
12/20/94	171	583	85	50	283,505	5,271	1.0	17	790	0.8	2.11	8	35	123	326	84	
12/28/94	191	741	176	92	296,100	12,585	1.2	16	2,500	1.6	11.88	20	94	691	1,152	174	
01/03/95	142	870	135	85	303,660	7,560	0.9	18	900	0.6	3.47	23	36	202	1,354	200	
01/10/95	166	879	3	2	304,017	357	1.9	19	800	0.0	0.00	23	36	202	1,354	200	
01/17/95	177	883	84	49	310,892	8,675	1.3	15	1,100	0.0	0.02	23	36	202	1,354	200	
01/24/95	163	1,126	163	100	327,873	12,131	1.2	16	100	0.1	0.75	24	6	44	1,404	207	
01/31/95	170	1,185	59	34	326,582	3,758	1.1	24	275	0.1	0.29	24	7	17	1,421	210	
02/06/95	191	1,376	191	100	341,642	14,460	1.3	16	100	0.1	0.43	25	3	25	1,446	213	
02/14/95	148	1,534	148	100	349,835	8,733	1.0	20	850	0.3	0.54	25	3	25	1,472	218	
02/21/95	163	1,687	163	100	357,755	7,920	0.8	17.5	500	0.3	2.21	27	19	128	1,605	237	
02/24/95	171	1,689	3	100	357,880	1,125	0.8	20	1,200	1.4	0.15	27	83	9	1,814	238	
03/13/95	178	1,900	211	44	387,881	25,001	2.0	24	-	0.0	0.00	27	-	-	1,814	238	
03/16/95	77	1,812	12	18	385,065	2,184	1.1	19	120	0.1	0.04	27	4	22	1,818	238	
03/21/95	117	2,075	117	100	400,500	15,435	2.2	19	250	0.3	1.53	29	18	89	1,705	251	
03/30/95	218	2,038	9	4	402,250	7,790	3.4	24	900	0.1	0.05	29	8	63	1,708	252	
04/06/95	165	2,202	165	100	421,260	19,010	1.9	20	375	0.2	1.22	30	10	71	1,779	262	
04/12/95	148	2,348	148	100	435,270	14,010	1.6	20	425	0.3	1.87	32	18	107	1,878	272	
04/19/95	166	2,514	166	100	460,136	24,866	2.5	25	2,800	1.1	7.68	40	64	445	2,321	342	
04/25/95	193	2,584	70	48	487,313	7,177	1.7	28	1,800	1.2	3.41	43	64	108	2,520	372	
05/01/95	138	2,723	138	100	490,180	12,861	1.5	25	1,700	1.1	8.38	49	64	371	2,691	426	
05/08/95	187	2,855	133	80	495,208	13,026	1.8	24	2,000	1.3	7.16	57	75	418	3,307	488	
05/16/95	187	2,855	0	0	-	-	-	-	-	-	-	57	-	-	3,307	488	
06/07/95	539	2,896	151	24	504,960	8,754	1.2	28	800	0.5	2.90	60	32	175	3,580	513	
06/14/95	169	3,061	75	44	511,530	6,570	1.5	26	600	0.4	1.25	61	33	73	3,553	534	
06/22/95	183	3,243	182	100	525,945	14,455	1.3	28	1,200	0.8	5.89	67	45	343	3,896	579	
06/28/95	148	3,381	148	100	538,984	12,939	1.5	26	350	0.2	1.40	68	13	81	3,977	587	
07/03/95	115	3,506	115	100	548,820	8,034	1.3	25	850	0.4	1.71	70	21	89	4,078	591	
07/13/95	240	3,747	241	100	565,790	17,770	1.2	25	600	0.4	1.91	74	26	227	4,304	635	
07/18/95	149	3,896	149	100	576,030	10,240	1.1	25	850	0.8	3.83	74	26	225	4,576	688	
07/26/95	164	4,060	164	100	587,220	11,190	1.1	24	690	0.4	3.05	81	26	178	4,704	694	
08/01/95	148	4,209	148	100	601,092	13,872	1.5	22	900	0.8	3.63	84	34	211	4,915	725	
08/08/95	164	4,373	164	100	615,264	14,172	1.4	23.5	1,500	0.8	5.30	90	45	308	5,223	770	
08/18/95	240	4,535	162	64	629,260	13,986	1.4	23	700	0.5	3.21	93	28	188	5,411	796	
08/23/95	126	4,661	126	100	639,722	10,467	1.4	22	800	0.4	2.19	95	24	125	5,536	817	
08/28/95	141	4,802	141	100	651,025	11,303	1.3	22	600	0.3	2.01	97	20	117	5,855	834	
09/06/95	193	4,995	193	100	666,163	15,138	1.3	22	550	0.4	3.03	100	22	176	6,289	860	
09/14/95	193	5,189	193	100	689,256	15,093	1.3	22	550	0.3	2.25	103	18	148	6,577	882	
09/20/95	137	5,326	137	100	692,237	10,991	1.3	22	350	0.2	1.37	104	14	80	6,057	893	
09/26/95	157	5,470	144	95	702,862	10,623	1.2	24	175	0.1	0.74	105	7	43	6,100	900	
10/02/95	137	5,607	137	100	711,626	8,764	1.1	25	290	0.2	0.98	106	10	57	6,157	908	
10/06/95	98	5,705	98	100	718,040	6,414	1.4	25	300	0.2	0.84	106	12	48	6,206	915	
10/11/95	127	5,785	90	63	723,773	5,233	1.1	25	250	0.2	0.57	107	10	33	6,238	920	
10/18/95	162	5,874	89	55	728,595	8,282	1.2	25	180	0.1	0.20	107	9	12	6,250	922	
10/24/95	142	6,015	141	100	738,747	9,192	1.1	-	-	-	-	107	-	-	6,250	922	
11/02/95	218	6,087	53	24	742,130	3,383	1.1	26	15	0.8	0.25	107	2	14	6,265	924	
11/10/95	194	6,236	168	97	757,645	15,515	1.5	23	700	0.1	0.96	108	6	56	6,321	932	
11/16/95	147	6,387	147	100	771,611	13,966	1.6	20	600	0.3	1.67	110	9	97	6,418	947	
11/21/95	120	6,503	120	100	781,819	10,208	1.4	21	90	0.1	0.33	110	4	19	6,437	949	
11/28/95	184	6,686	164	100	794,878	13,059	1.3	18	175	0.1	0.36	111	7	50	6,487	957	
Totals	8,371	6,666	6,666	72	532,714	534,714	-	-	-	-	-	-	111	-	-	6,487	957

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GROUNDWATER TECH

16:34 FAX 916 372 8781

01/22/96

**QUARTERLY SUMMARY REPORT**  
Former Texaco/Current Exxon Service Station  
2225 Telegraph Avenue, Oakland, California  
Alameda County  
Fourth Quarter, 1995

**HISTORY OF INVESTIGATIVE AND REMEDIAL ACTIONS**

A preliminary subsurface investigation and a sensitive receptor survey were conducted in May, 1988. Nine shallow monitoring wells (MW-6A through MW-6I) were installed on site and seven soil borings were drilled near the pump islands and tanks. Two vapor wells were installed in the tank pit backfill, and an additional vapor extraction well (VE-3) was installed on site. Recovery well RW-1 was installed into soil boring B-3. Two of the on-site monitoring wells (MW-6C and MW-6D) were converted to groundwater recovery wells (RW-3 and RW-2, respectively) when the groundwater treatment system was installed at the site in 1990. The underground storage tanks, lines, and dispensers were replaced in late 1991. RW-3 was destroyed in 1991 and replaced by RW-3A in 1992. MW-6A was destroyed in 1992 due to damage.

**WORK PERFORMED DURING THIS QUARTER**

Quarterly groundwater monitoring and sampling was performed. Operation and maintenance of the groundwater treatment system was conducted. A soil vapor extraction system (Baker Furnace thermal-oxidizer) was installed. System start-up was attempted in December 1995.

**CHARACTERIZATION STATUS**

The extent of petroleum hydrocarbons in soil and groundwater has not been delineated.

**REMEDIATION STATUS**

A groundwater treatment system is in operation at the site which extracts groundwater from two recovery wells using air displacement pumps and three liquid phase carbon canisters to treat the groundwater prior to discharge. A Baker furnace will be installed next quarter to compliment the groundwater extraction system and utilize the vapor extraction well that has been installed.

**WORK TO BE PERFORMED NEXT QUARTER**

Continue quarterly monitoring and sampling to record fluctuations in groundwater elevation and hydrocarbon concentrations and continue operation and maintenance of the groundwater treatment system. Add well RW-3A to the existing groundwater treatment system. Begin operation of the soil vapor extraction system.

**COMPANY CONTACT:** Karen Petryna (510) 236-9139

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